

W is NHC(=X)R₁, or -Y-het;

X is O, or S; provided that when X is O, B is not the subsection (b)[.];

Y is NH, O, or S;

Z is S(=O)(=N-R₅);

R₁ is

- (a) H,
- (b) NH₂,
- (c) NHC₁₋₄alkyl,
- (d) C₁₋₄alkyl,
- (e) C₂₋₄alkenyl,
- (f) OC₁₋₄alkyl,
- (g) SC₁₋₄alkyl, or
- (h) (CH₂)_p C₃₋₆cycloalkyl;

at each occurrence, alkyl or cycloalkyl in R₁ is optionally substituted with one or more F, Cl or CN;

R₂ and R₃ are independently H, F, Cl, methyl or ethyl;

R₄ is H, CH₃, or F;

R₅ is

- (c) C(=O)C₁₋₄alkyl,
- (d) C(=O)OC₁₋₄alkyl,

(e) $C(=O)NHR_6$, or

(f) $C(=S)NHR_6$;

R_6 is H, C_{1-4} alkyl, or phenyl;

at each occurrence, alkyl in R_5 and R_6 is optionally substituted with one or more halo, CN, NO_2 , phenyl, C_{3-6} cycloalkyl, OR_7 , $C(=O)R_7$, $OC(=O)R_7$, $C(=O)OR_7$, $S(=O)_mR_7$, $S(=O)_mNR_7R_7$, $NR_7SO_2R_7$, $NR_7SO_2NR_7R_7$, $NR_7C(=O)R_7$, $C(=O)NR_7R_7$, NR_7R_7 , oxo, or oxime;

R_7 is H, C_{1-4} alkyl, or phenyl;

at each occurrence, phenyl is optionally substituted with one or more halo, CF_3 , CH_3 , CN, NO_2 , phenyl, C_{3-6} cycloalkyl, OR_7 , $C(=O)R_7$, $OC(=O)R_7$, $C(=O)OR_7$, $S(=O)_mR_7$, $S(=O)_mNR_7R_7$, $NR_7SO_2R_7$, $NR_7SO_2NR_7R_7$, $NR_7C(=O)R_7$, $C(=O)NR_7R_7$, or NR_7R_7 ;

het is a C-linked five- (5) membered heteroaryl ring having 1-4 heteroatoms selected from the group consisting of oxygen, sulfur, and nitrogen, or het is a C-linked six (6) membered heteroaryl ring having 1-3 nitrogen atoms;

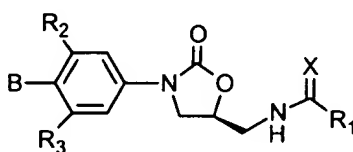
p is 0, 1, or 2;

j is 1, 2, 3, 4, or 5; provided that j and p taken together are 2, 3, 4 or 5;

m is 0, 1, or 2;

n is 2 or 3; and --- in structure iii is either a double bond or a single bond.

2. A compound of claim 1 having the formula IA:



IA.

46. A compound of claim 2 which is

N-((5S)-3-[3-fluoro-4-[1-(acetylimino)-1-oxido-1,3,4,5,6,7-hexahydro-1λ⁴-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-[1-(acetylimino)-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-(1-(((methylamino)carbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-(1-((methoxycarbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-(1-(((ethoxycarbonyl)methyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-(1-(((4-nitrophenyl)amino)carbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer ;

N-((5S)-3-[3-fluoro-4-[1-((aminocarbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-((5S)-3-[3-fluoro-4-[1-(((aminocarbonyl)methyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-{3-fluoro-4-(1-((methoxycarbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl}phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide;

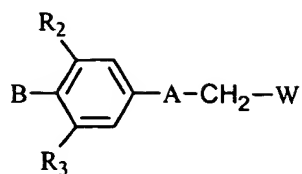
N-(((5S)-3-{3-fluoro-4-(1-((methoxycarbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl}phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanecarbothioamide ;

N-(((5S)-3-{3-fluoro-4-[1-((methoxycarbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanecarbothioamide, Z-isomer;

N-(((5S)-3-{3-fluoro-4-[1-(((phenylmethoxy)carbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer; or

N-((5S)-3-[3-fluoro-4-(1-(((benzylamino)carbonyl)imino))-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer.

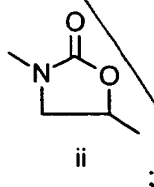
47. 1. A compound of formula II



II

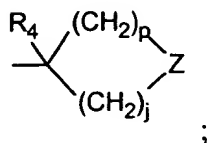
or a pharmaceutically acceptable salt thereof wherein:

A is a structure ii



ii

B is

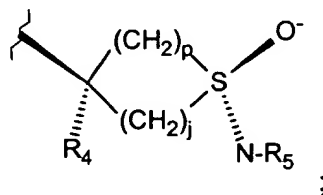


W is $\text{NHC}(=\text{X})\text{R}_1$, or $-\text{Y}-\text{het}$;

X is O, or S;

Y is NH, O, or S;

Z is $\text{S}(=\text{O})(=\text{N}-\text{R}_5)$ and the B ring has the following stereochemistry



R_1 is

- (a) H,
- (b) NH_2 ,
- (c) $\text{NHC}_{1-4}\text{alkyl}$,

- C4
cont
- (d) C₁₋₄alkyl,
 - (e) C₂₋₄alkenyl,
 - (f) OC₁₋₄alkyl,
 - (g) SC₁₋₄alkyl, or
 - (h) (CH₂)_p C₃₋₆cycloalkyl;

at each occurrence, alkyl or cycloalkyl in R₁ is optionally substituted with one or more F, Cl or CN;

R₂ and R₃ are independently H, F, Cl, methyl or ethyl;

R₄ is H, CH₃, or F;

R₅ is

- B²
- (a) H,
 - (b) C₁₋₄alkyl,
 - (c) C(=O)C₁₋₄alkyl,
 - (d) C(=O)OC₁₋₄alkyl,
 - (e) C(=O)NHR₆, or
 - (f) C(=S)NHR₆;

R₆ is H, C₁₋₄alkyl, or phenyl;

at each occurrence, alkyl in R₅ and R₆ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₇, C(=O)R₇, OC(=O)R₇, C(=O)OR₇, S(=O)_mR₇, S(=O)_mNR₇R₇, NR₇SO₂R₇, NR₇SO₂NR₇R₇, NR₇C(=O)R₇, C(=O)NR₇R₇, NR₇R₇, oxo, or oxime;

R₇ is H, C₁₋₄alkyl, or phenyl;

at each occurrence, phenyl is optionally substituted with one or more halo, CF₃, CH₃, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₇, C(=O)R₇, OC(=O)R₇, C(=O)OR₇, S(=O)_mR₇, S(=O)_mNR₇R₇, NR₇SO₂R₇, NR₇SO₂NR₇R₇, NR₇C(=O)R₇, C(=O)NR₇R₇, or NR₇R₇;

het is a C-linked five- (5) membered heteroaryl ring having 1-4 heteroatoms selected from the group consisting of oxygen, sulfur, and nitrogen, or het is a C-linked six (6) membered heteroaryl ring having 1-3 nitrogen atoms;

p is 0, 1, or 2;

j is 1, 2, 3, 4, or 5; provided that j and p taken together are 2, 3, 4 or 5;

β^2
 β^4
 cont
 m is 0, 1, or 2;

and ---- in structure iii is either a double bond or a single bond..

β^3 52. The compound of claim 47 wherein R_1 is cyclopropyl.

65. A compound of claim 47 which is

β^4
 β^6
 N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide (Z)-isomer;

N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide (Z)-isomer;

N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide (Z)-isomer;

N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanethioamide (Z)-isomer;

N-(((5S)-3-[3-fluoro-4-[1-(acetylimino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-[1-(methyylimino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-[1-(acetylimino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-[1-(ethyylimino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-[1-[(phenylmethyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-[1-[(3-phenylpropyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

N-(((5S)-3-[3-fluoro-4-(1-[(methylamino)carbonyl]imino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;

*C⁶
cont*

~~N-((5S)-3-[3-fluoro-4-(1-[(methoxycarbonyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;~~

~~N-((5S)-3-[3-fluoro-4-(1-[(ethoxycarbonyl)methyl]imino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;~~

~~N-((5S)-3-[3-fluoro-4-(1-[[[(4-nitrophenyl)amino]carbonyl]imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer ;~~

B⁴

~~N-((5S)-3-[3-fluoro-4-[1-[(aminocarbonyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;~~

~~N-((5S)-3-[3-fluoro-4-[1-[(aminocarbonyl)methyl]imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;~~

~~N-((5S)-3-[3-fluoro-4-[1-[(2-hydroxyethyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer;~~

~~N-((5S)-3-[3-fluoro-4-[1-(methylimino)-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanecarbothioamide, Z-isomer;~~

~~N-(((5S)-3-{3-fluoro-4-[1-[(methoxycarbonyl)imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanecarbothioamide, Z-isomer;~~

~~N-(((5S)-3-{3-fluoro-4-[1-[(phenylmethoxy)carbonyl]imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer; or~~

~~N-((5S)-3-[3-Fluoro-4-(1-[[[(benzylamino)carbonyl]imino]-1-oxidohexahydro-1 λ^4 -thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer.~~